

T-2000

Version 1.0 Revision Date: 08/17/2015 MSDS Number: F000000521 Date of last issue: -
Date of first issue: 08/17/2015

SECTION 1. IDENTIFICATION

Product name : T-2000

Product code : F000000521

Manufacturer or supplier's details

Company name of supplier : Tiarco Chemical Company

Address : 1300 Tiarco Drive
Dalton GA 30721

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-
1300 Danny Welch (ehs@trcc.com)

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:
97.7046 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
zinc oxide	1314-13-2	>= 5 - < 10

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of vapours.
Oxygen or artificial respiration if needed.
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while
removing all contaminated clothes and shoes.
If symptoms persist, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse im-
mediately with plenty of water, also under the eyelids, for at least
15 minutes.

SAFETY DATA SHEET



T-2000

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	08/17/2015	F000000521	Date of first issue: 08/17/2015

Keep eye wide open while rinsing.
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.
If conscious, drink plenty of water.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
ABC powder
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray.
Do not allow run-off from fire fighting to enter drains or water courses.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
Exposure to decomposition products may be a hazard to health.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Material can create slippery conditions.
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.
Do not allow contact with soil, surface or ground water.
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for : Dam up.

T-2000

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	08/17/2015	F000000521	Date of first issue: 08/17/2015

containment and cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel.
Pick up and transfer to properly labelled containers.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.
Handle with care.
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.
Keep in properly labelled containers.
Observe label precautions.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.
Keep away from food and drink.
Keep away from tobacco products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
zinc oxide	1314-13-2	TWA (Respirable fraction)	2 mg/m ³	ACGIH
		STEL (Respirable fraction)	10 mg/m ³	ACGIH
		TWA (Dust)	5 mg/m ³	NIOSH REL
		TWA (Fumes)	5 mg/m ³	NIOSH REL
		ST (Fumes)	10 mg/m ³	NIOSH REL
		C (Dust)	15 mg/m ³	NIOSH REL
		TWA (Fumes)	5 mg/m ³	OSHA Z-1
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respir-	5 mg/m ³	OSHA Z-1

T-2000

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	08/17/2015	F00000521	Date of first issue: 08/17/2015

		able fraction)	
Engineering measures	:	Handle only in a place equipped with local exhaust (or other appropriate exhaust). Maintain air concentrations below occupational exposure standards.	
Personal protective equipment			
Respiratory protection	:	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use NIOSH approved respiratory protection.	
Hand protection	:		
Material	:	Impervious gloves	
Eye protection	:	Safety glasses with side-shields Tightly fitting safety goggles Face-shield	
Skin and body protection	:	Chemical resistant apron Footwear protecting against chemicals Skin should be washed after contact. Change working clothes after each workshift.	
Protective measures	:	Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
Hygiene measures	:	Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	off-white, yellow
Odour	:	characteristic
pH	:	9.0 - 10.0

SAFETY DATA SHEET



T-2000

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	08/17/2015	F000000521	Date of first issue: 08/17/2015

Melting point/range : No data available

Boiling point/boiling range : > 200 °F

Flash point : > 200 °F

Vapour pressure : No data available

Density : 1,060 kg/m³

Solubility(ies)
Water solubility : insoluble

Solubility in other solvents : not determined

Partition coefficient: n-octanol/water : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Protect from frost.
Heat, flames and sparks.

Incompatible materials : Oxidizing agents
Strong acids and strong bases

Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

Skin corrosion/irritation

Product:

Remarks: This information is not available.

T-2000

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	08/17/2015	F000000521	Date of first issue: 08/17/2015

Serious eye damage/eye irritation**Product:**

Remarks: Eye irritation

Respiratory or skin sensitisation**Product:**

Remarks: This information is not available.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to fish :
Remarks: No data availableToxicity to daphnia and other :
aquatic invertebrates : Remarks: No data availableToxicity to algae :
Remarks: No data available**Persistence and degradability**

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

T-2000

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	08/17/2015	F000000521	Date of first issue: 08/17/2015

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Clean container with water.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION**International Regulation****IATA-DGR**

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(ZINC DITHIOCARBAMATE)

Class : 9

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**49 CFR**

UN/ID/NA number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,
N.O.S.
(ZINC DITHIOCARBAMATE)

Class : 9

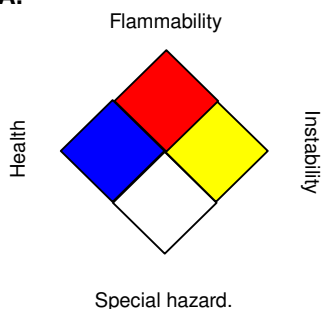
T-2000

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	08/17/2015	F00000521	Date of first issue: 08/17/2015

Packing group	: III
Labels	: CLASS 9
ERG Code	: 171
Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION

- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION**Further information****NFPA:****HMIS III:**

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 08/17/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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